

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number  
WO 2004/111653 A1

(51) International Patent Classification<sup>7</sup>: G01N 33/68,  
C07K 16/18, A61P 19/00

(21) International Application Number:  
PCT/NZ2004/000125

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
526526 17 June 2003 (17.06.2003) NZ

(71) Applicants and

(72) Inventors: PRICKETT, Timothy Charles Ramsey [NZ/NZ]; 98 Sumnervale Drive, Sumner, Christchurch, 8008 (NZ). ESPINER, Eric Arnold [NZ/NZ]; 7 Pentre Terrace, Cashmere, Christchurch, 8002 (NZ). RICHARDS, Arthur Mark [NZ/NZ]; 51 Derby Street, St Albans, Christchurch (NZ). YANDLE, Timothy Grant [NZ/NZ]; 135 Major Hombrook Rd, Mt Pleasant, Christchurch (NZ). NICHOLLS, Michael Gary [NZ/AE]; Department of Medicine, Faculty of Medicine & Health Sciences, University of the United Arab Emirates, Box 17666, Al Ain (AE).

(74) Agents: CALHOUN, Douglas C et al.; A J Park, Huddart Parker Building, 1 Post Office Square, P O Box 949, Wellington, 6001 (NZ).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: ASSESSMENT OF SKELETAL GROWTH USING MEASUREMENTS OF NT-CNP PEPTIDES

(57) Abstract: A means of measuring and monitoring skeletal growth rate using a plasma analyte, amino-terminal C-type natriuretic peptide (NT-CNP). Plasma NT-CNP concentrations reflect the potential for further growth of the immature skeleton. Measurement of plasma NT-CNP in a subject, when related to the mean of an appropriate age and gender matched set of control subjects, provides an index of the severity of a growth disorder not otherwise available and facilitates diagnosis in children with undetected osteochondrodysplasias or other intrinsic disorders of the growth plate. The invention also provides a means of detecting and monitoring potentially harmful effects of drugs and other factors on skeletal growth long before they are evident using current methods in clinical practice.

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